UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF NEW YORK	USDC SDNY DOCUMENT ELECTRONICALLY FILED DOC #: DATE FILED: February 5, 2015
UNITED STATES OF AMERICA	
-V-	: 14-cr-68 (KBF)
ROSS WILLIAM ULBRICHT,	ORDER
Defendant.	· : X
KATHERINE B. FORREST, District Judge:	

Attached to this order as Exhibit A is the resume of Steven M. Bellovin, which was submitted by the Government in connection with their motion to preclude him from testifying as an expert. (ECF No. 170.)

SO ORDERED.

Dated:

New York, New York February 5, 2015

> KATHERINE B. FORREST United States District Judge

EXHIBIT A

Steven M. Bellovin

smb at cs.columbia.edu http://www.cs.columbia.edu/~ smb

Education

- 1982 Ph.D., University of North Carolina at Chapel Hill. Dissertation: Verifiably Correct Code Generation Using Predicate Transformers; advisor: David L. Parnas.
- 1977 M.S., University of North Carolina at Chapel Hill.
- 1972 B.A., Columbia University.

Employment

2005-now	Professor of Computer Science, Columbia University.
2012-2013	Chief Technologist, Federal Trade Commission
2002-2004	Adjunct Professor of Computer Science, University of Pennsylvania.
1998-2004	AT&T Fellow, AT&T Labs—Research.
1987-1998	Distinguished Member of the Technical Staff, AT&T Bell Laboratories and AT&T Labs—Research.
1982-1987	Member of the Technical Staff, AT&T Bell Laboratories.
1977-1978	Instructor, Dept. of Computer Science, University of North Carolina at Chapel Hill.

Honors

- 2014 Elected to the Cybersecurity Hall of Fame
- 2006 Received the 2007 NIST/NSA National Computer Systems Security Award
- 2001 Elected to the National Academy of Engineering.
- 1998 Named an AT&T Fellow.
- 1995 Received the Usenix Lifetime Achievement Award ("The Flame"), along with Tom Truscott and Jim Ellis, for our role in creating Usenet.

Books and Chapters

- Salvatore Stolfo, Steven M. Bellovin, Angelos D. Keromytis, Sara Sinclair, Sean Smith, and Shlomo Hershkop, editors. Insider Attack and Cyber Security: Beyond the Hacker (Advances in Information Security). Springer, 2008.
- Seymour E. Goodman and Herbert S. Lin, editors. Toward a Safer and More Secure Cyberspace. National Academy Press, 2007.
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- William R. Cheswick, Steven M. Bellovin, and Aviel D. Rubin. *Firewalls and Internet Security; Repelling the Wily Hacker*. Addison-Wesley, Reading, MA, second edition, 2003.
- Making the Nation Safer: The Role of Science and Technology in Countering Terrorism. National Academies Press, 2002.
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Papers and Articles

- Steven M. Bellovin. The economics of cyberwar. Technical Report CUCS-010-14, Department of Computer Science, Columbia University, April 2014. Presented at the Institute for New Economic Thinking's Human After All.
- Steven M. Bellovin, Matt Blaze, Sandy Clark, and Susan Landau. Lawful hacking: Using existing vulnerabilities for wiretapping on the Internet. Northwestern Journal of Technology & Intellectual Property, 12(1), 2014.

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 When enough is enough: Location tracking, mosaic theory, and machine learning. NYU Journal of Law and Liberty, 8(2):555-628, 2014.
- Sebastian Zimmeck and Steven M. Bellovin. Privee: An architecture for automatically analyzing web privacy policies. In 23rd USENIX Security Symposium (USENIX Security 14), pages 1–16, San Diego, CA, August 2014. USENIX Association.
- Steven M. Bellovin. Position paper: Security and simplicity. In W3C/IAB Workshop on Strengthening the Internet Against Pervasive Monitoring (STRINT), March 2014.
- Vasilis Pappas, Fernando Krell, Binh Vo, Vlad Kolesnimov, Tal Malkin, Seung Geol Choi, Wesley George, Angelos Keromytis, and Steven M. Bellovin. Blind seer: A scalable private DBMS. In *IEEE Symposium on Security and Privacy*, May 2014.
- Steven M. Bellovin. Mysterious checks from Mauborgne to Fabyan. Technical Report CUCS-012-14, Department of Computer Science, Columbia University, April 2014. A later version will appear in *Cryptologia*.
- Steven M. Bellovin. Vernam, Mauborgne, and Friedman: The one-time pad and the index of coincidence. Technical Report CUCS-014-14, Department of Computer Science, Columbia University, May 2014.
- S. Bellovin, R. Bush, and D. Ward. Security Requirements for BGP Path Validation. RFC 7353, RFC Editor, August 2014.
- Steven M. Bellovin. Submission to the Privacy and Civil Liberties Oversight Board: Technical issues raised by the Section 215 and Section 702 surveillance programs, July 2013.
- Steven M. Bellovin, Matt Blaze, Sandy Clark, and Susan Landau. Going bright: Wiretapping without weakening communications infrastructure. *IEEE Security* & *Privacy*, 11(1):62–72, January–February 2013.
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- Mariana Raykova, Ang Cui, Binh Vo, Bin Liu, Tal Malkin, Steven M. Bellovin, and Salvatore J. Stolfo. Usable secure private search. *IEEE Security & Privacy*, 10(5), September-October 2012.
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- Vasilis Pappas, Mariana Raykova, Binh Vo, Steven M. Bellovin, and Tal Malkin.
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- Elli Androulaki and Steven M. Bellovin. A secure and privacy-preserving targeted ad-system. In Proceedings of the 1st Workshop on Real-Life Cryptographic Protocols and Standardization, January 2010.
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Major Positions

2010-now Member, Computer Science and Telecommunications Board of the National Academies

2009-now Member, Technical Guidelines Development Committee of the Elections Assistance Commission

2008 Co-chair, Applied Cryptography and Network Security (ACNS)

2006	Chair, Steps Towards Reducing Unwanted Traffic in the Internet (SRUTI)
2005-now	Member, Department of Homeland Security Science and Technology Advisory Committee
2004-2007	Member, National Research Council study committee on cybersecurity research needs.
2002-2004	Member, ICANN DNS Security and Stability Advisory Committee.
2002-2004	Security Area co-director, Internet Engineering Task Force (IETF).
2002	Chair, program committee, IEEE Symposium on Security and Privacy.
2002	Member, Information Technology sub-committee, National Research Council study committee on science and technology against terrorism.
2001-2003	Member, ACM Advisory Committee on Security and Privacy.
2001	Vice-chair, program committee, IEEE Symposium on Security and Privacy.
2001-2003	Member, National Research Council study committee on authentication technologies and their privacy implications.
2000-2002	Chair, IETF ITRACE working group.
2000	Co-chair, Usenix Security Symposium.
1999-2002	IETF representative, ICANN Protocol Supporting Organization
1999-now	Co-chair, IETF SPIRITS working group.
1997-2001	Co-chair, IETF PINT working group.
1996-1998	Member, National Research Council study committee on information systems trustworthiness.
1996-2002	Member, Internet Architecture Board.
1996	Co-chair, Usenix Security Symposium.
1993-1995	Member, IETF IPng Directorate.

U.S. Patents

- 8,798,614 Enhanced communication service for predicting and handling communication interruption
- 8,676,916 Method and Apparatus for Connection to Virtual Private Networks for Secure Transactions

- 8,239,531 Method and Apparatus for Connection to Virtual Private Networks for Secure Transactions
- 8,145,793 System and Method for Distributed Content Transformation
- 8,107,479 Method and System for Telephony and High Speed Data Access on a Broadband Access Network
- 8,037,167 Method for Detecting Hosts behind Network Address Translators
- 7,907,517 Routing Protocols with Predicted Outage Notification
- 7,756,008 Routing Protocols with Predicted Outage Notification
- 7,676,224 Enhanced Communication Service for Predicting and Handling Communication Interruption (2010).
- 7,558,970 Full-Text Privacy-enhanced searches using encryption
- 7,227,843 Method for reducing congestion in packet-switched networks (2007).
- 7,051,365 Method and apparatus for a distributed firewall (2006).
- 7,035,410 Method and apparatus for enhanced security in a broadband telephony network (2006).
- 6,870,845 Method for providing privacy by network address translation (2005).
- 6,665,299 Method and system for telephony and high speed data access on a broadband access network (2003).
- 5,958,052 Method and apparatus for restricting access to private information in domain name systems by filtering information (1999).
- 5,870,557 Method for determining and reporting a level of network activity on a communications network using a routing analyzer and advisor (1999).
- 5,805,820 Method and apparatus for restricting access to private information in domain name systems by redirecting query requests (1998).
- 5,440,635 Cryptographic protocol for remote authentication (1995).
- 5,241,599 Cryptographic protocol for secure communications (1993).

Numerous other patent applications are pending.